

SMITH PHILIP IRVING

Form 4

April 16, 2007

FORM 4**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

Check this box
if no longer
subject to
Section 16.
Form 4 or
Form 5
obligations
may continue.
See Instruction
1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF
SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

OMB APPROVAL

OMB
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(Print or Type Responses)

1. Name and Address of Reporting Person *
SMITH PHILIP IRVING

(Last) (First) (Middle)

**5850 OPUS PARKWAY, SUITE
300**

(Street)

MINNETONKA, MN 55343

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading
Symbol
VITAL IMAGES INC [VTAL]

3. Date of Earliest Transaction
(Month/Day/Year)

04/12/2007

4. If Amendment, Date Original
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

____ Director ____ 10% Owner
☒ Officer (give title below) ____ Other (specify
below) below)

Exec VP - Corp Dev

6. Individual or Joint/Group Filing(Check
Applicable Line)
☒ Form filed by One Reporting Person
____ Form filed by More than One Reporting
Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock ⁽¹⁾	04/12/2007		M		10,000	A	\$ 19.64
Common Stock ⁽¹⁾	04/12/2007		S		10,000	D	\$ 31.34

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

**Persons who respond to the collection of
information contained in this form are not
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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)
Employee stock option (right to buy)	\$ 19.64	04/12/2007		M	10,000	(2) 09/08/2013	Common Stock 10,000

Reporting Owners

Reporting Owner Name / Address	Relationships
SMITH PHILIP IRVING 5850 OPUS PARKWAY SUITE 300 MINNETONKA, MN 55343	Director 10% Owner Officer Other Exec VP - Corp Dev

Signatures

/s/ Philip I. Smith 04/16/2007

Signature of Reporting Person Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

(1) Transaction made pursuant to plan adopted under Rule 10b5-1.

(2) Original grant of 45,000 vests as to 20,000 shares on December 15, 2005, 7,000 shares on September 8, 2006, and 500 shares on the eighth day of each calendar month thereafter until fully vested.

(3) In addition, Mr. Smith has other options outstanding of 41,300 at various prices and expiration dates.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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